

* Refer to parts list on page 8 ~

ADJUSTMENT

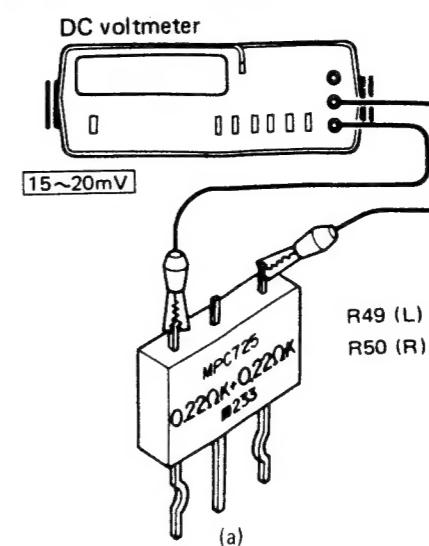
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across R49 (R50)	VOLUME : 0	VR1 (L) VR2 (R)	15~20mV	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	REGLAGE DU COURANT DE POLARISATION	—	Connecter un voltmètre CC Sur R49(R50)	VOLUME : 0	VR1 (G) VR2 (D)	15~20mV	(a)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über R49(R50) anschließen	VOLUME : 0	VR1 (L) VR2 (R)	15~20mV	(a)

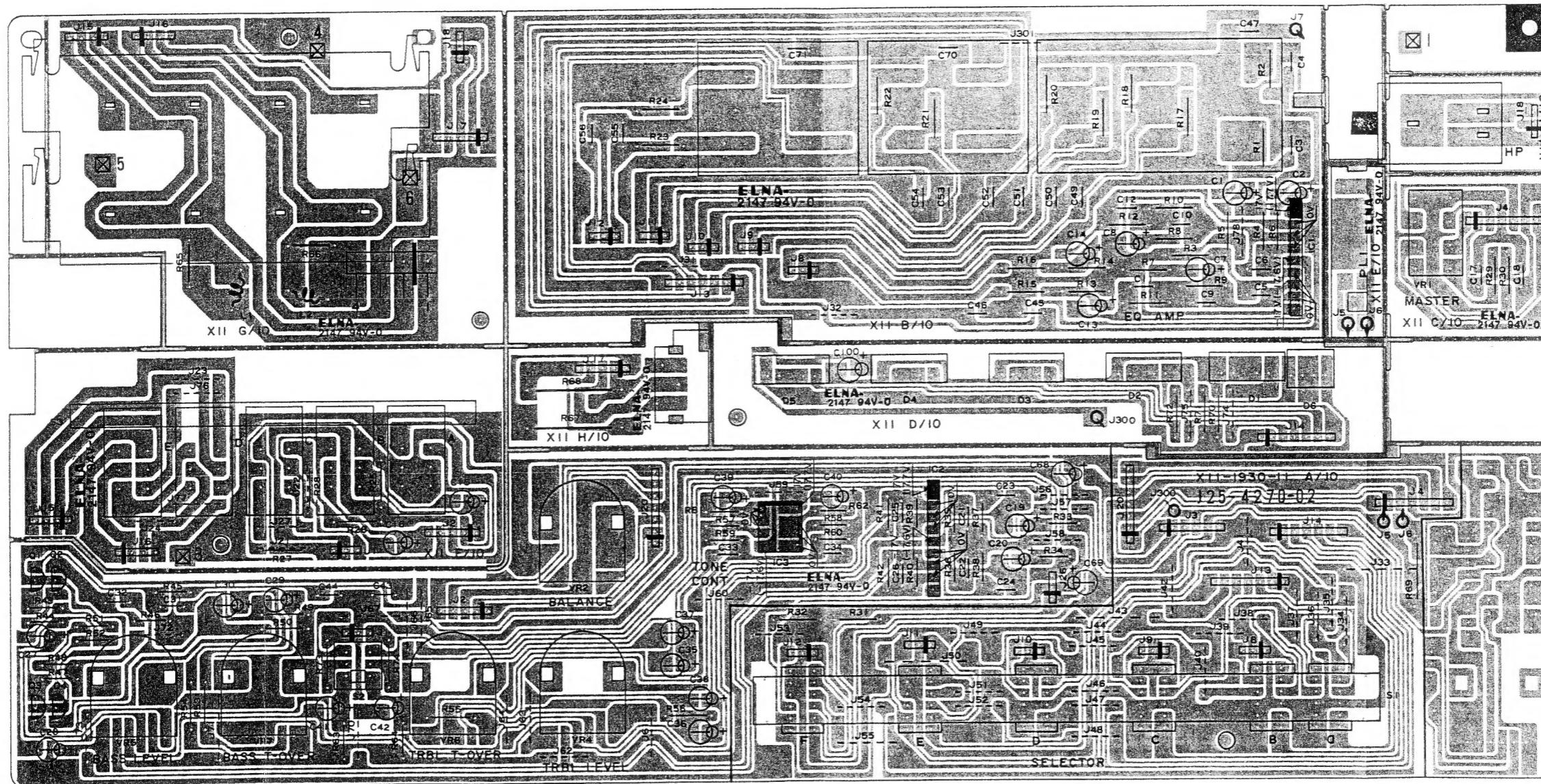


KA-52/72 **KA-52/72**

PC BOARD

TONE AMP (X11-1930-11) Component side view

() : KA-52

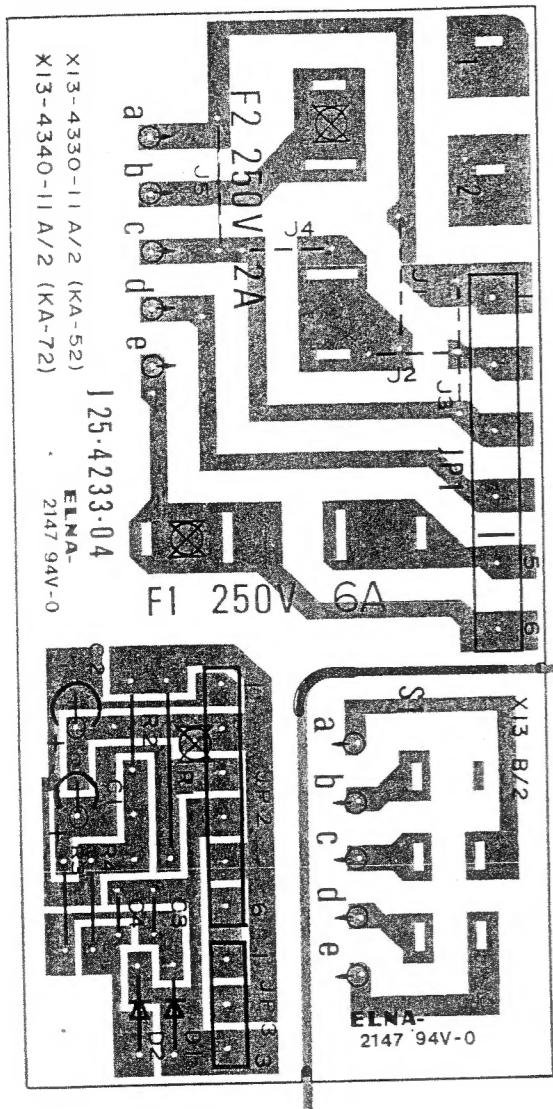


Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

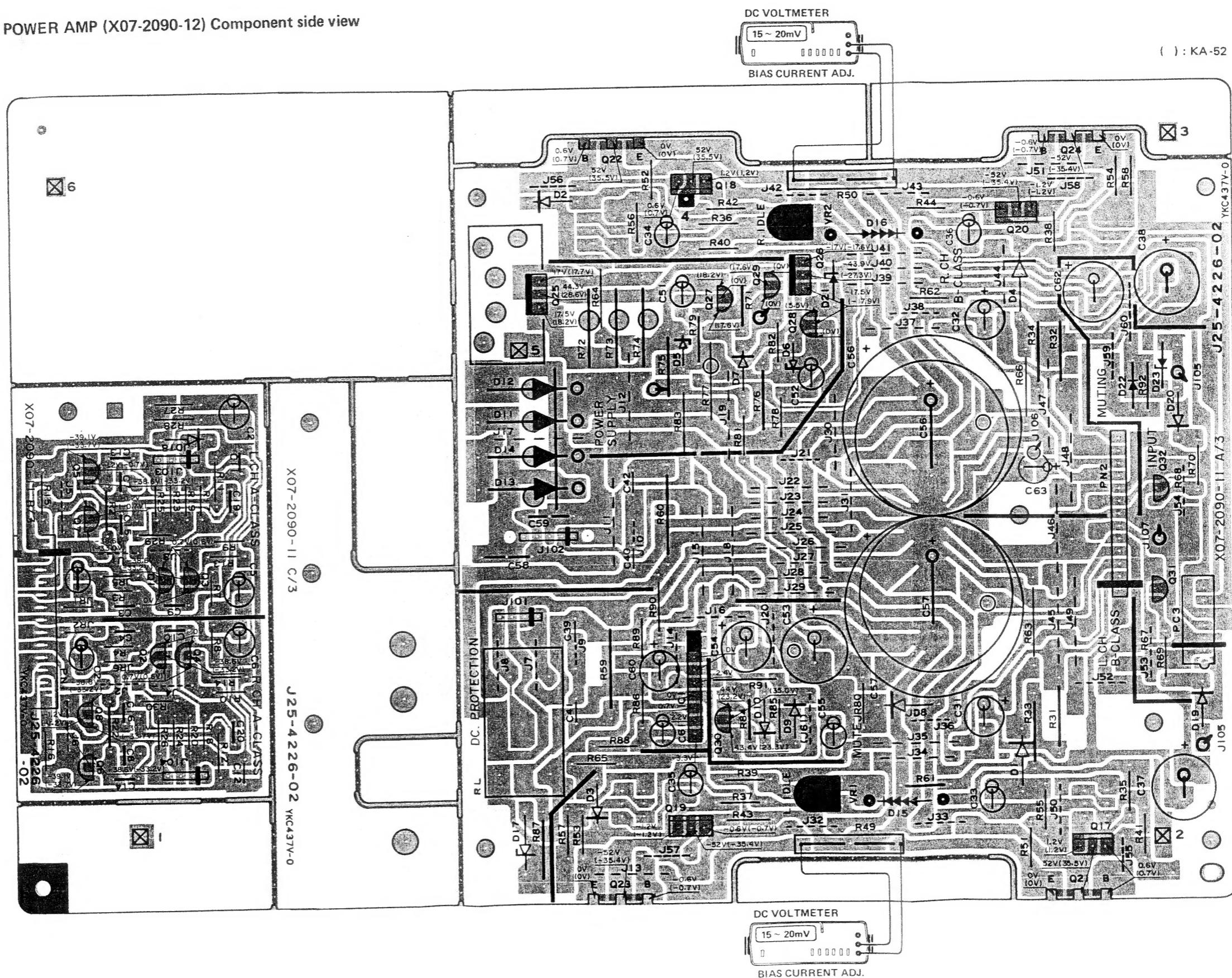
KA-52/72 **KA-52/72**

PC BOARD

POWER SUPPLY (X13-4340-11)
Component side view



POWER AMP (X07-2090-12) Component side view

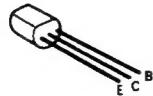


Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

KENWOOD

STEREO INTEGRATED AMPLIFIER

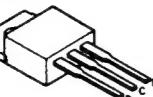
2SA992
2SA999
2SC1685
2SC1845
2SC2320
2SC945



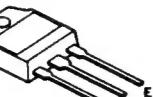
2SA1110
2SC2590



2SA957
2SA2167



2SA1105*1
2SC2580*1



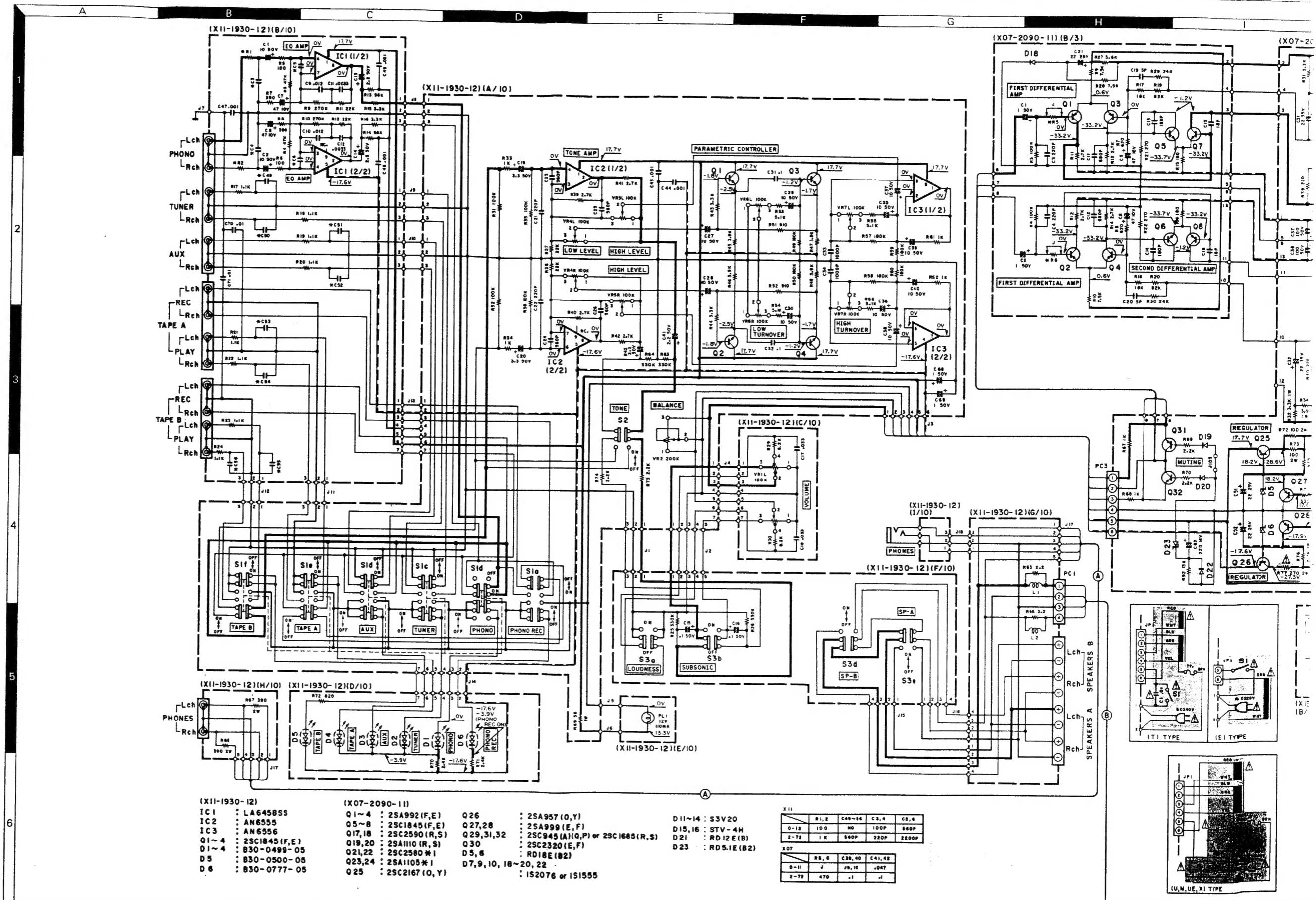
AN6555

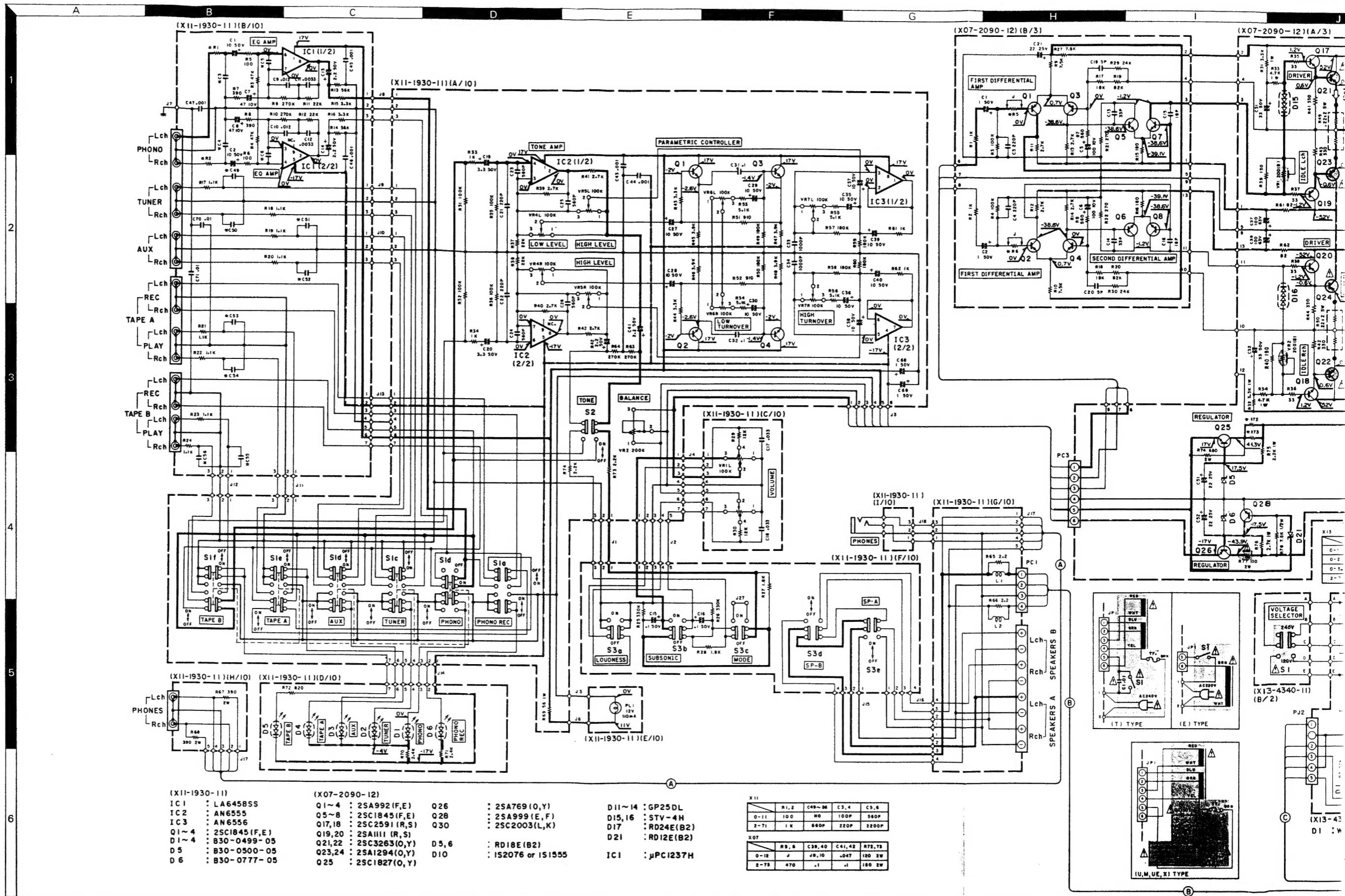


LA6458SS



AN6556



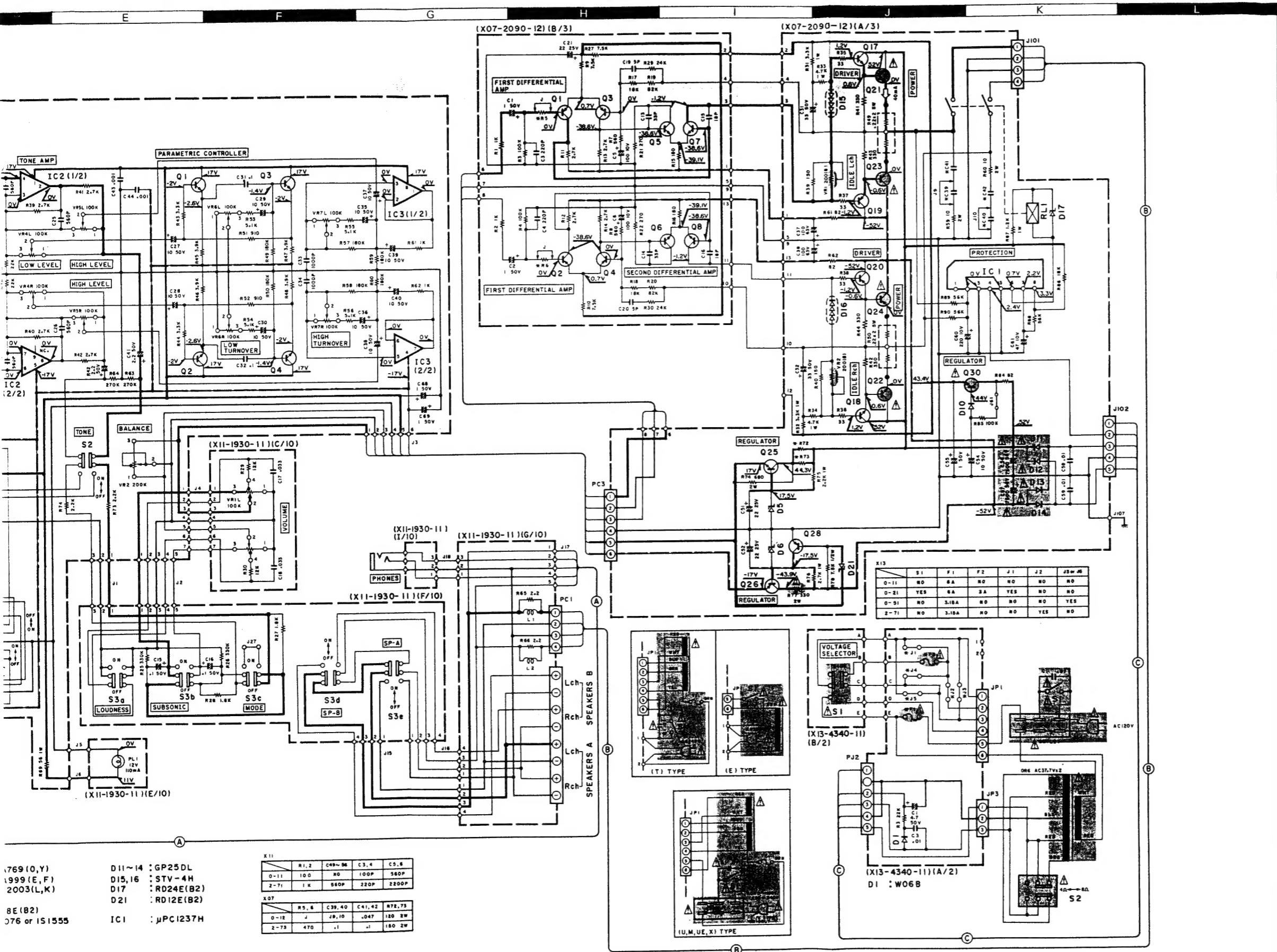


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts
bly insulated from the supply circuit) before
returned to the customer.

STEREO INTEGRATED AMPLIFIER

KA-72/B



1769 (0, Y)
 1999 (E, F)
 2003 (L, K)
 - 8E (B2)
 076 or 151555

D11~14 : GP25DL
 D15, 16 : STV-4H
 D17 : RD24E(B2)
 D21 : RD12E(B2)
 ICI : μPC1237H

X11	R1, 2	C49~96	C3, 4	C5, 6
0-11	100	NO	100P	380P
2-71	1K	580P	220P	2200P

X07	R5, 6	C39, 40	C41, 42	R72, 75
0-12	4	10	.047	120 2W
2-73	470	.1		180 2W

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



SPECIFICATIONS

Audio Section

Power Output
70 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion.

Both Channels Driven at 8 ohms,
 1 kHz 75 W + 75 W

Dynamic Power Output at
 4 ohms 290 W

Total Harmonic Distortion

TUNER input to SPEAKER output
 (20 Hz to 20,000 Hz) 0.05% at rated power
 into 8 ohms
 (20 Hz to 20,000 Hz) 0.03% at 1/2 rated power
 into 8 ohms

PHONO input to SPEAKER
 output (1 kHz) 0.03% at rated power with
 VOLUME -20 dB

Intermodulation Distortion 0.02% at rated power
 (60 Hz:7 kHz = 4:1) into 8 ohms
 20 (1 kHz into 8 ohms)

Damping Factor 10 Hz to 80 kHz
 at 0.2% T.H.D.

Frequency Response 10 Hz to 100 kHz,
 +0 dB, -3 dB

Input Sensitivity/Impedance

Phono 2.5 mV/47 k ohms
 Tuner, Tape 150 mV/25 k ohms

Signal-to-Noise Ratio (IHF, A)
 Phono 73 dB for 2.5 mV input
 79 dB for 5.0 mV input

Tuner, Tape 101 dB for 150 mV input
 Phono Maximum Input Level 150 mV (RMS),
 T.H.D. 0.05% at 1,000 Hz

Output Level/Impedance
 Tape REC (Pin) 150 mV/3.3 k ohms
 Phono Frequency Response RIAA standard curve ± 0.3 dB
 (20 Hz to 20,000 Hz)

Tone Control

Bass ± 8 dB at 100 Hz
 (Turn over 100 Hz - 1 kHz)

Treble ± 8 dB at 10 kHz
 (Turn over 1 kHz - 10 kHz)

Subsonic Filter 60 Hz, 6 dB/oct.

Loudness Control +8 dB at 100 Hz
 (at -30 dB VOLUME Level)

General

Power Requirements 60 Hz 120 V (U.S.A. & Canada models), 50 Hz 240 V (U.K. model) or 50/60 Hz 110 - 120 V/220 - 240 V, switchable

Power Consumption 2.7 A (UL and CSA)
 460 W (European countries, U.K., Australia)
 230 W (Others)

A.C. Outlet Switched 2, Unswitched 1

Dimensions W 420 mm (16-1/2")
 H 89 mm (3-1/2")
 D 279 mm (11")

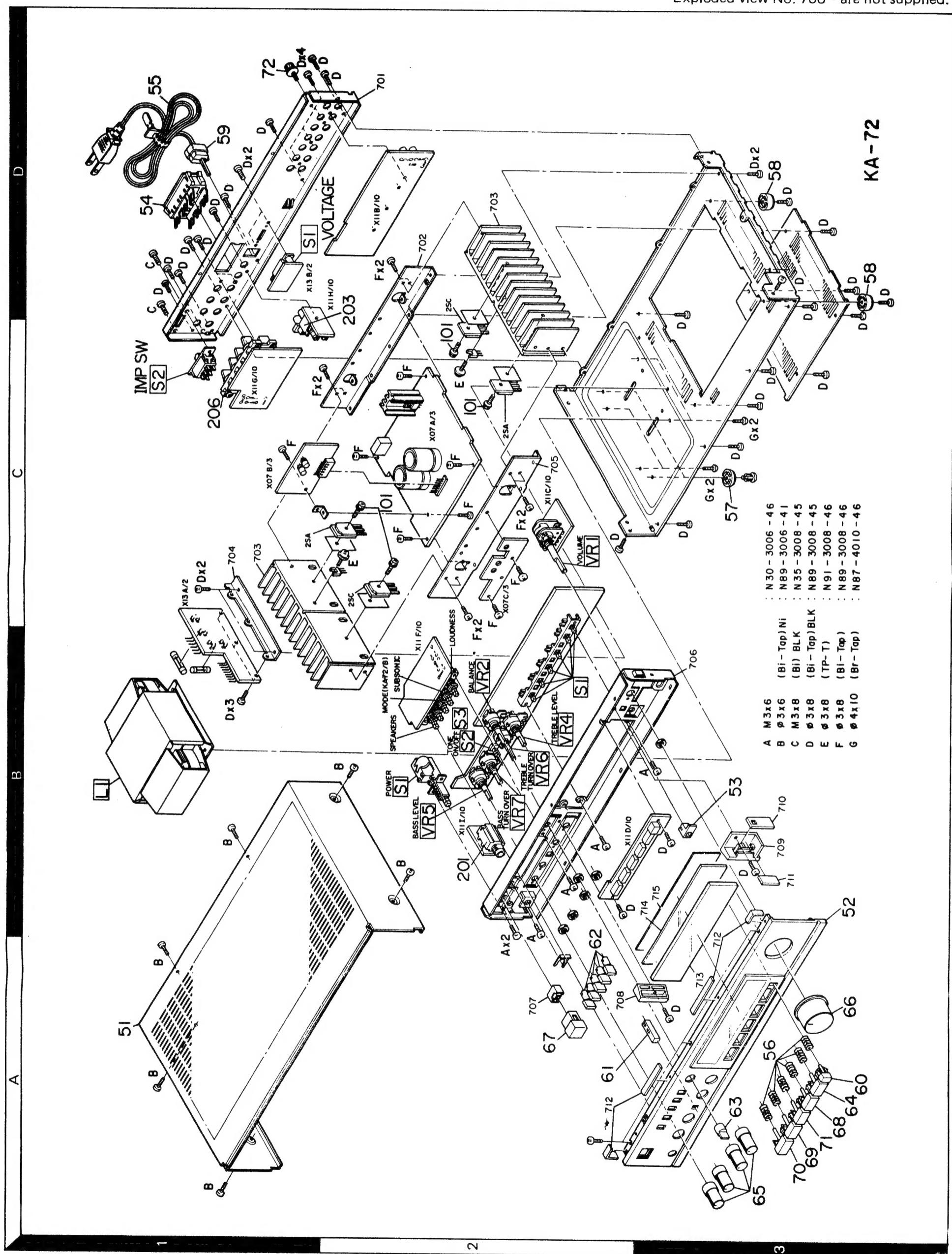
Weight 6.5 kg (14.3 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW

Exploded view No. 700~ are not supplied.



PARTS LIST

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KA-52						
51	1A		A01-0648-02	METALLIC CABINET	KPUM	
51	1A		A01-0648-02	METALLIC CABINET	UEX	
51	1A		A01-0649-02	METALLIC CABINET	TE	
52	3B	*	A20-3667-03	PANEL ASSY	KPUM	
52	3B	*	A20-3667-03	PANEL ASSY	UEXE	
52	3B	*	A20-3668-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-			B50-5020-00	INSTRUCTION MANUAL (E)	T	
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C3			C91-0023-00	CERAMIC PLATE COUPLED AC250V	UMUEX	
△ C4			C91-0024-00	CERAMIC PLATE COUPLED P	KP	
53	3B		D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-01B1-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-05	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0749-05	AC POWER CORD	P	
△ 55	1D		E30-10C1-05	AC POWER CORD	UMUE	
56	3A		G01-1438-04	COMPRESSION SPRING		
-		*	H01-4971-04	ITEM CARTON CASE	T	
-		*	H01-4972-04	ITEM CARTON CASE	KPUM	
-		*	H01-4972-04	ITEM CARTON CASE	UEXE	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	X	
60	3A		K27-1060-04	KNOB (BUTTON) PHONO REC		
61	2A		K27-1061-04	KNOB (BUTTON) PUSH		
62	2A		K27-1112-04	KNOB (BUTTON) SPEAKERS		
63	3B		K29-1230-04	KNOB	BALANCE	
64	3A		K29-1351-04	KNOB ASSY	PHONO	
65	3A		K29-1352-04	KNOB	TONE	
66	3A		K29-1354-04	KNOB	VOLUME	
67	2A		K29-1446-04	KNOB ASSY	POWER	

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

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T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

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68	3A		K29-1449-04	KNOB ASSY TUNER		
69	3A		K29-1451-04	KNOB ASSY TAPE A		
70	3A		K29-1452-04	KNOB ASSY TAPE B		
71	3A		K29-1487-04	KNOB ASSY AUX		
△ C1	1B	*	L01-3401-05	POWER TRANSFORMER	KP	
△ L1	1B	*	L01-3402-05	POWER TRANSFORMER	E	
△ L1	1B	*	L01-3406-05	POWER TRANSFORMER	UE	
△ L1	1B	*	L01-3406-05	POWER TRANSFORMER	EX	
72	1D		N08-0128-35	BINDING POST	T	
△ S1	2B		S40-1066-05	PUSH SWITCH (POWER TYPE)		
KA-52B						
51	1A		A01-0690-02	METALLIC CABINET		
52	3B	*	A20-3797-03	PANEL ASSY	KPUM	
52	3B	*	A20-3797-03	PANEL ASSY	UEXE	
52	3B	*	A20-3798-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UE	
-			B46-0095-03	WARRANTY CARD	UE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-			B50-5020-00	INSTRUCTION MANUAL (E)	T	
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UE	
△ C1			C91-0023-05	CERAMIC COUP. 0.01UP	AC250V	UEDEX
△ C1			C91-0647-05	CERAMIC COUP. 0.01UP	P	KP
53	3B		D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-0181-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-15	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0780-05	AC POWER CORD	P	
△ 55	1D		E30-0812-05	AC POWER CORD	UE	
56	3A		G01-1438-04	COMPRESSION SPRING		
-		*	H01-5027-04	ITEM CARTON CASE	KPUM	
-		*	H01-5027-04	ITEM CARTON CASE	UEXE	
-		*	H01-5028-04	ITEM CARTON CASE	T	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING	X	

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60	3A		K27-1164-04	KNOB (BUTTON)	PHONE REC			
61	2A	*	K27-1153-04	KNOB (BUTTON)	PUSH			
62	2A		K27-0965-04	KNOB (BUTTON)	SPEAKERS			
63	3B		K29-1518-04	KNOB	BALANCE			
64	3A	*	K29-1511-04	KNOB ASSY	PHONE			
65	3A	*	K29-1516-04	KNOB	TONE			
66	3A		K29-1517-04	KNOB	VOLUME			
67	2A		K29-1446-04	KNOB ASSY	POWER			
68	3A	*	K29-1512-04	KNOB ASSY	TUNER			
69	3A	*	K29-1514-04	KNOB ASSY	TAPE A			
70	3A	*	K29-1515-04	KNOB ASSY	TAPE B			
71	3A	*	K29-1513-04	KNOB ASSY	AUX			
△ L1	1B		LD1-23401-05	POWER TRANSFORMER			KP	
△ L2	1B		LD1-23402-05	POWER TRANSFORMER			E	
△ L3	1B		LD1-23403-05	POWER TRANSFORMER			UMUX	
△ L4	1B		LD1-23404-05	POWER TRANSFORMER			T	
72	1D		N08-0128-35	BINDING POST				
△ S1	2E		S40-0106-03	PUSH SWITCH (POWER TYPE)				
POWER AMP (X07-2090-11)								
C1 ,2			CEO4FW1H010M	ELECTRO	1UF	50WV		
C3 ,4			CC45FSL1H221J	CERAMIC	220PF	J		
C5 ,6			CEO4FW1A470M	ELECTRO	47UF	10WV		
C11 ,12			CK45FB1H681K	CERAMIC	680PF	K		
C13 ,14			CC45FSL1H181J	CERAMIC	180PF	J		
C15 ,16			CC45FSL1H180J	CERAMIC	18PF	J		
C19 ,20			CC45FSL1H050C	CERAMIC	5.0PF	C		
C21			CEO4FW1E220M	ELECTRO	22UF	25WV		
C31 ,32			CEO4FW1V220M	ELECTRO	22UF	35WV		
C37 ,38			CEO4FW1H101M	ELECTRO	100UF	50WV		
C39 ,42			CF92FV1H104J	MF	0.10UF	J		
C41 ,42			CF92FV1H473J	MF	0.047UF	J		
C41 ,42			CF92FV1H473J	MF	0.047UF	J		
C51 ,52			CEO4FW1E220M	ELECTRO	22UF	25WV		
C54			CEO4FW1H470M	ELECTRO	47UF	50WV		
C55			CEO4FW1H010M	ELECTRO	1UF	50WV		
△ C56 ,57			CE04FW1H010M	ELECTRO	6800UF	50WV		
C58 ,59			CK45E2H103P	CERAMIC	0.01UF	P		
C62			CEO4FW1C221M	ELECTRO	220UF	16WV		
101	2C		N09-0333-05	TAPPING SCREW				
R15 ,16		*	RD14AB2E181J	FL-PROOF	RD 180	J 2E		
R21 ,22			RD14GB2E271J	FL-PROOF	RD 270	J 2E		
R31 ,32			RS14GB3A332J	FL-PROOF	RS 3.3K	J 3A		
R33 ,34			RS14GB3A392J	FL-PROOF	RS 3.9K	J 3A		
R35			RD14GB2E330J	FL-PROOF	RD 33	J 2E		
R36		*	RD14AB2E330J	FL-PROOF	RD 33	J 2E		
R37			RD14GB2E330J	FL-PROOF	RD 33	J 2E		
R38		*	RD14AB2E330J	FL-PROOF	RD 33	J 2E		
R39 ,40		*	RD14AB2E221J	FL-PROOF	RD 220	J 2E		
R41		*	RD14AB2E331J	FL-PROOF	RD 330	J 2E		
R42			RD14GB2E331J	FL-PROOF	RD 330	J 2E		
R43 ,44		*	RD14AB2E331J	FL-PROOF	RD 330	J 2E		
R49 ,50			R90-0187-05	MULTI-COMP	0.22X2	K 3H		

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R59 ,60		*	RS14GB3D100J	FL-PROOF RS 10	J 3D	
R61 ,62			RD14AB2E820J	FL-PROOF RD 82	J 2E	
R72 ,73			RS14GB3D101J	FL-PROOF RS 100	J 3D	
R75			RS14GB3A222J	FL-PROOF RS 2. 2K	J 3A	
R76			RS14GB3A272J	FL-PROOF RS 2. 7K	J 3A	
▲ R77		*	RS14GB3D271J	FL-PROOF RS 270	J 3D	
R78		*	RD14GB2H752J	FL-PROOF RD 7. 5K	J 2H	
R84		*	RD14AB2E820J	FL-PROOF RD 82	J 2E	
VR1 ,2			R12-0087-05	TRIMMING POT. 200(B) BIAS		
D5 ,6		*	RD18E(B2)	ZENER DIODE		
D7			1S1555	DIODE		
D7			1S2076	DIODE		
D9 ,10			1S1555	DIODE		
D9 ,10			1S2076	DIODE		
▲ D11 -14			STV20	DIODE		
D15 ,16			STV-4H	VARISTOR		
D18 -20			1S1555	DIODE		
D18 -20			1S2076	DIODE		
D21			RD12E(B2)	ZENER DIODE		
D22			1S1555	DIODE		
D22			1S2076	DIODE		
D23			RD5. 1E(B2)	ZENER DIODE		
Q1 -4			2SA992(F,E)	TRANSISTOR (1ST AMP)		
Q5 -8			2SC1845(F,E)	TRANSISTOR (2ND AMP)		
Q17 ,18			2SC2590(R,S)	TRANSISTOR (DRIVER)		
Q19 ,20			2SA1110(R,S)	TRANSISTOR (DRIVER)		
▲ Q21 ,22			2SC2580*1	TRANSISTOR (POWER)		
▲ Q23 ,24			2SA1105*1	TRANSISTOR (POWER)		
Q25		*	2SC2167(Q,Y)	TRANSISTOR (REGULATOR)		
Q26		*	2SA957(Q,Y)	TRANSISTOR (REGULATOR)		
Q27 ,28			2SA999(E,F)	TRANSISTOR (POWER SUPPLY CONT.)		
Q29			2SC1685(R,S)	TRANSISTOR (MUTE DRIVE)		
Q29			2SC945(A)(Q,P)	TRANSISTOR (MUTE DRIVE)		
▲ Q30			2SC2320(E,F)	TRANSISTOR (REGULATOR)		
Q31 ,32			2SC1685(R,S)	TRANSISTOR (MUTING)		
Q31 ,32			2SC945(A)(Q,P)	TRANSISTOR (MUTING)		

TONE AMP (X11-1930-12)

D1 -4		B30-0499-05	LED (SELECTOR)			
D5		B30-0500-05	LED (TAPE B)			
D6		B30-0777-05	LED (PHONE REC)			
PL1		B30-0372-05	LAMP (POWER) 12V 0. 11A			
C1 ,2		CEO4FW1H100M	ELECTRO	10UF	50WV	
C3 ,4		CC45FSL1H101J	CERAMIC	100PF	J	KPUM
C3 ,4		CC45FSL1H101J	CERAMIC	100PF	J	UEX
C3 ,4		CC45FSL1H221J	CERAMIC	220PF	J	TE
C5 ,6		CK45FB1H222K	CERAMIC	2200PF	K	TE
C5 ,6		CK45FB1H561K	CERAMIC	560PF	K	
C5 ,6		CK45FB1H561K	CERAMIC	560PF	K	KPUM
C7 ,8		CEO4FW1A470M	ELECTRO	47UF	10WV	UEX
C9 ,10		CF92FV1H123J	MF	0. 012UF	J	
C11 ,12		CF92FV1H332J	MF	3300PF	J	
C13 ,14		CEO4FW1H2R2M	ELECTRO	2. 2UF	50WV	
C15 ,16		CEO4FW1HOR1M	ELECTRO	0. 1UF	50WV	
C17 ,18		CF92FV1H333J	MF	0. 033UF	J	

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C19 ,20			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C21 ,22			CC45FSL1H221J	CERAMIC	220PF	J		
C23 ,26			CK45FB1H561K	CERAMIC	560PF	K		
C27 ,30			CE04FW1H100M	ELECTRO	10UF	50WV		
C31 ,32			CF92FV1H104J	MF	0.10UF	J		
C33 ,34			CK45FB1H102K	CERAMIC	0.001UF	K		
C35 ,40			CE04FW1H100M	ELECTRO	10UF	50WV		
C41 ,42			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C43 ,47			CK45FF1H103Z	CERAMIC	0.01UF	Z		
C49 ,56			CK45FB1H561K	CERAMIC	560PF	K	TE	
C68 ,69			CE04FW1H010M	ELECTRO	1UF	50WV		
C70 ,71			CK45FF1H103Z	CERAMIC	0.01UF	Z		
201	2B		E11-0135-05	PHONE JACK (HEADPHONE)				
203	1C		E13-0217-05	PHONE JACK (2P)				
206	1C		E20-0820-05	LOCK TERMINAL BOARD (SPEAKERS)				
-			E13-0434-05	PHONE JACK (4P)				
-			E13-0622-05	PHONE JACK (6P)				
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL				
R65 ,66			RD14GB2E2R2J	FL-PROOF RD	2.2	J 2E		
R67 ,68			RS14GB3D391J	FL-PROOF RS	390	J 3D		
R69			RS14GB3A560J	FL-PROOF RS	56	J 3A		
VR1			R06-5087-05	POTENTIOMETER	100K(B)	VOLUME		
VR2			R01-5041-05	POTENTIOMETER	200K(W)	BALANCE		
VR4 ,5	*		R06-5116-05	POTENTIOMETER	100K	TONE		
VR6 ,7	*		R06-5117-05	POTENTIOMETER	100K	TURNOVER		
S1	*		S42-6016-05	MULTIPLE PUSH SWITCH(SELECTOR)				
S2	*		S40-2323-05	PUSH SWITCH (TONE)				
S3	*		S42-4035-05	PUSH SW. (MODE, SP, LOUD, SUBSONIC)				
IC1			LA645855	IC (EQ AMP)				
IC2			AN6555	IC (TONE AMP)				
IC3			AN6556	IC (TONE AMP)				
Q1 ,4			2SC1845(F, E)	TRANSISTOR (CONTROLLER)				
POWER SUPPLY (X13-4330-11)								
C1			CE04W1H220M	ELECTRO	22UF	50WV	KPUM	
C1			CE04W1H220M	ELECTRO	22UF	50WV	UEXT	
C1 ,2			CE04W1H470M	ELECTRO	47UF	50WV	E	
C2			CE04W1H470M	ELECTRO	47UF	50WV	KPUM	
C2			CE04W1H470M	ELECTRO	47UF	50WV	UEXT	
C3 ,4			CK45F1H103Z	CERAMIC	0.01UF	Z		
△ F1			F05-4022-05	FUSE			UMUEX	
△ F1			F06-2021-05	FUSE (SEMKO)			E	
△ F1			F06-4024-05	FUSE (UL)			KP	
△ F2			F05-2023-05	FUSE			UMUEX	
△ F2			F06-2021-05	FUSE (SEMKO)			T	
-			J13-0041-05	FUSE CLIP			UMUEX	
-			J13-0055-05	FUSE CLIP			KPTE	
R1			RS14GB3D122J	FL-PROOF RS	1.2K	J 3D		
R3 ,4			RD14GB2E4R7J	FL-PROOF RD	4.7	J 2E		
△ S1			S30-2000-15	SLIDE SWITCH (POWER VOLTAGE)			UMUEX	
D1 ,2			W06B	DIODE				

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参照番号	位 置	新	部品番号	部品名 / 規格	仕 向	
KA-72						
51	1A		A01-0648-02	METALLIC CABINET	KPUM	
51	1A		A01-0648-02	METALLIC CABINET	UEX	
51	1A		A01-0649-02	METALLIC CABINET	TE	
52	3B	*	A20-3662-03	PANEL ASSY	KPUM	
52	3B	*	A20-3662-03	PANEL ASSY	UEXE	
52	3B	*	A20-3663-03	PANEL ASSY	T	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-5018-00	INSTRUCTION MANUAL (E)	KPUM	
-		*	B50-5018-00	INSTRUCTION MANUAL (E)	UE	
-		*	B50-5019-00	INSTRUCTION MANUAL (F)	PMXE	
-		*	B50-5020-00	INSTRUCTION MANUAL (E)	T	
-		*	B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
-		*	B50-5027-00	INSTRUCTION MANUAL (SP,E)	M	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1			C91-0023-05	CERAMIC 0.01UF	AC250V	UMUEX
△ C1			C91-0647-05	CERAMIC 0.01UF	P	KP
53	3B	*	D22-0050-04	SHAFT COUPLING		
△ 54	1D		E03-0061-05	AC OUTLET	KPUM	
△ 54	1D		E03-0061-05	AC OUTLET	UEX	
△ 55	1D		E30-0181-05	AC POWER CORD	K	
△ 55	1D		E30-0459-05	AC POWER CORD	E	
△ 55	1D		E30-0587-15	AC POWER CORD	T	
△ 55	1D		E30-0649-05	AC POWER CORD	X	
△ 55	1D		E30-0780-05	AC POWER CORD	P	
△ 55	1D		E30-0812-05	AC POWER CORD	UMUE	
56	3A	*	G01-1438-04	COMPRESSION SPRING		
-		*	H01-4969-04	ITEM CARTON CASE	T	
-		*	H01-4970-04	ITEM CARTON CASE	KPUM	
-		*	H01-4970-04	ITEM CARTON CASE	UEXE	
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
57	3C		J02-0109-05	FOOT		
58	3D		J02-0129-05	FOOT		
△ 59	1D		J42-0083-05	POWER CORD BUSHING	KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING	UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING	X	
60	3A	*	K27-1060-04	KNOB (BUTTON) PHONO REC		
61	2A	*	K27-1061-04	KNOB (BUTTON) PUSH		
62	2A		K27-1112-04	KNOB (BUTTON) SPEAKERS		
63	3B		K29-1230-04	KNOB	BALANCE	
64	3A	*	K29-1351-04	KNOB ASSY	PHONO	
65	3A	*	K29-1352-04	KNOB	TONE	
66	3A		K29-1354-04	KNOB	VOLUME	
67	2A		K29-1446-04	KNOB ASSY	POWER	

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68	3A	*	K29-1449-04	KNOB ASSY	TUNER	
69	3A	*	K29-1451-04	KNOB ASSY	TAPE A	
70	3A	*	K29-1452-04	KNOB ASSY	TAPE B	
71	3A	*	K29-1487-04	KNOB ASSY	AUX	
△ L1	1B	*	L01-3391-05	POWER TRANSFORMER	K	
△ L1	1B	*	L01-3392-05	POWER TRANSFORMER	E	
△ L1	1B	*	L01-3396-05	POWER TRANSFORMER	UUE	
△ L1	1B	*	L01-3397-05	POWER TRANSFORMER	T	
△ L1	1B	*	L01-3397-05	POWER TRANSFORMER	P	
72	1D		N08-0128-35	BINDING POST		
△ S1	2B		S40-1073-05	PUSH SWITCH (POWER)	UMUE	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)	TE	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)	KP	
△ S2	1D		S31-2068-05	SLIDE SWITCH (IMP SW)		

KA-72B

51	1A		A01-0690-02	METALLIC CABINET	KPUM			
52	3B	*	A20-3801-03	PANEL ASSY	UEXE			
52	3B	*	A20-3801-03	PANEL ASSY	T			
52	3B	*	A20-3802-03	PANEL ASSY				
-			B46-0092-03	WARRANTY CARD	K			
-			B46-0093-03	WARRANTY CARD	P			
-			B46-0094-03	WARRANTY CARD	UUE			
-			B46-0095-03	WARRANTY CARD	UUE			
-			B46-0096-03	WARRANTY CARD	X			
-			B46-0097-03	WARRANTY CARD	T			
-			B46-0098-03	WARRANTY CARD	E			
-			B50-5018-00	INSTRUCTION MANUAL (E)	KPUM			
-			B50-5018-00	INSTRUCTION MANUAL (E)	UE			
-			B50-5019-00	INSTRUCTION MANUAL (F)	PMXE			
-			B50-5020-00	INSTRUCTION MANUAL (E)	T			
-			B50-5021-00	INSTRUCTION MANUAL (G,D,I,SW)	E			
-			B50-5027-00	INSTRUCTION MANUAL (SP,E)	M			
-			B59-0092-00	SERVICE DIRECTORY	UUE			
△ C1			C91-0023-05	CERAMIC	0.01UF	AC250V	UMUE	
△ C1			C91-0642-05	CERAMIC	0.01UF	P	KP	
53	3B		D22-0050-04	SHAFT COUPLING				
△ 54	1D		E03-0061-05	AC OUTLET	KPUM			
△ 54	1D		E03-0061-05	AC OUTLET	UE			
△ 55	1D		E30-0181-05	AC POWER CORD	K			
△ 55	1D		E30-0459-05	AC POWER CORD	E			
△ 55	1D		E30-0587-15	AC POWER CORD	T			
△ 55	1D		E30-0649-05	AC POWER CORD	X			
△ 55	1D		E30-0780-05	AC POWER CORD	P			
△ 55	1D		E30-0817-05	AC POWER CORD	UMUE			
56	3A		G01-1438-04	COMPRESSION SPRING				
-		*	H01-5029-04	ITEM CARTON CASE	KPUM			
-		*	H01-5029-04	ITEM CARTON CASE	UEXE			
-		*	H01-5030-04	ITEM CARTON CASE	T			
-			H10-1706-02	POLYSTYRENE FOAMED FIXTURE				
-			H25-0078-04	PROTECTION BAG				
57	3C		J02-0109-05	FOOT				

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58	3D		J02-0129-05	FOOT				
△ 59	1D		J42-0083-05	POWER CORD BUSHING			KPUM	
△ 59	1D		J42-0083-05	POWER CORD BUSHING			UETE	
△ 59	1D		J42-0085-05	POWER CORD BUSHING			X	
-			J21-3326-05	JACK MOUNTING HARDWARE				
60	3A		K27-1060-04	KNOB (BUTTON) PHONO REC				
61	2A		K27-1153-04	KNOB (BUTTON) PUSH				
62	2A		K27-0965-04	KNOB (BUTTON) SPEAKER				
63	3B		K29-1518-04	KNOB BALANCE				
64	3A		K29-1511-04	KNOB ASSY PHONO				
65	3A		K29-1516-04	KNOB TONE				
66	3A		K29-1517-04	KNOB VOLUME				
67	2A		K29-1446-04	KNOB ASSY POWER				
68	3A		K29-1512-04	KNOB ASSY TUNER				
69	3A		K29-1514-04	KNOB ASSY TAPE A				
70	3A		K29-1515-04	KNOB ASSY TAPE B				
71	3A		K29-1513-04	KNOB ASSY AUX				
△ L1	1B		LO1-3394-05	POWER TRANSFORMER			K	
△ L1	1B		LO1-3392-05	POWER TRANSFORMER			E	
△ L1	1B		LO1-3396-05	POWER TRANSFORMER			UMU	
△ L1	1B		LO1-3396-05	POWER TRANSFORMER			EX	
△ L1	1B		LO1-3397-05	POWER TRANSFORMER			T	
72	1D		N08-0128-35	BINDING POST			P	
△ S1	2B		S40-1075-05	PUSH SWITCH (POWER)				
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)			UMU	
△ S2	1D		S31-2001-05	SLIDE SWITCH (IMP SW)			EX	
△ S2	1D		S31-2068-05	SLIDE SWITCH (IMP SW)			TE	
							KP	
POWER AMP (X07-2090-12)								
C1 ,2			CE04FW1H010M	ELECTRO	1UF	50WV		
C3 ,4			CC45FSL1H221J	CERAMIC	220PF	J		
C5 ,6			CE04FW1A101M	ELECTRO	100UF	10WV		
C13 ,14			CC45FSL1H330J	CERAMIC	33PF	J		
C15 ,16			CC45FSL1H180J	CERAMIC	18PF	J		
C19 ,20			CC45FSL1H050C	CERAMIC	5.0PF	C		
C21			CE04FW1E220M	ELECTRO	22UF	25WV		
C31 ,32			CE04FW1H330M	ELECTRO	33UF	50WV		
C37 ,38			CE04FW1J101M	ELECTRO	100UF	63WV		
C39 -42			CF92FV1H104J	MF	0.10UF	J	TE	
C41 ,42			CF92FV1H473J	MF	0.047UF	J		KPUM
C41 ,42			CF92FV1H473J	MF	0.047UF	J		UEX
C51 ,52			CE04FW1E220M	ELECTRO	22UF	25WV		
C54			CE04FW1H100M	ELECTRO	10UF	50WV		
C55			CE04FW1H010M	ELECTRO	1UF	50WV		
△ C56 ,57			CE04FW1H010M	ELECTRO	7.500UF	56WV		
C58 ,59			CK45E2H103P	CERAMIC	0.01UF	P		
C60			CE04FW1A221M	ELECTRO	220UF	10WV		
C61			CE04FW1A470M	ELECTRO	47UF	10WV		
101	2C		N09-0333-05	TAPPING SCREW				
R15 ,16		*	RD14AB2E181J	FL-PROOF RD	180	J 2E		
R21 ,22			RD14GB2E271J	FL-PROOF RD	270	J 2E		
R31 ,32			RS14GB3A332J	FL-PROOF RS	3.3K	J 3A		
R33 ,34			RS14GB3A472J	FL-PROOF RS	4.7K	J 3A		
R35			RD14GB2E330J	FL-PROOF RD	33	J 2E		

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R36		*	RD14AB2E330J	FL-PROOF RD 33		J	2E				
R37			RD14GB2E330J	FL-PROOF RD 33		J	2E				
R38		*	RD14AB2E330J	FL-PROOF RD 33		J	2E				
R39 , 40		*	RD14AB2E151J	FL-PROOF RD 150		J	2E				
R41		*	RD14AB2E331J	FL-PROOF RD 330		J	2E				
R42			RD14GB2E331J	FL-PROOF RD 330		J	2E				
R43 , 44		*	RD14AB2E331J	FL-PROOF RD 330		J	2E				
R49 , 50			R90-0187-05	MULTI-COMP 0.22X2		K	3H				
R59 , 60			RS14GB3D100J	FL-PROOF RS 10		J	3D				
R61 , 62		*	RD14AB2E820J	FL-PROOF RD 82		J	2E				
R72 , 73			RS14GB3D121J	FL-PROOF RS 120		J	3D				
R72 , 73			RS14GB3D121J	FL-PROOF RS 120		J	3D				
R72 , 73			RS14GB3D151J	FL-PROOF RS 150		J	3D				
R75			RS14GB3A222J	FL-PROOF RS 2.2K		J	3A				
R76			RS14GB3A272J	FL-PROOF RS 2.7K		J	3A				
△ R77			RS14GB3A331J	FL-PROOF RS 330		J	3D				
R78		*	RD14GB2H752J	FL-PROOF RD 7.5K		J	2H				
R84		*	RD14AB2E820J	FL-PROOF RD 82		J	2E				
R87			RS14GB3A122J	FL-PROOF RS 1.2K		J	3A				
VR1 , 2			R12-0087-05	TRIMMING POT. 200(B) BIAS							
RL1			S51-2060-05	MAGNETIC RELAY (PROTECTION)							
D5 , 6		*	RD18E(B2)	ZENER DIODE							
D10			1S1555	DIODE							
D10			1S2076	DIODE							
△ D11 , 14			GP25D	DIODE							
D15 , 16			STV-4H	VARISTOR							
D17			RD24E(B2)	ZENER DIODE							
D21			RD12E(B2)	ZENER DIODE							
IC1			UPC1237H	IC (PROTECTION)							
Q1 -4			2SA992(F,E)	TRANSISTOR (1ST AMP)							
Q5 -8			2SC1845(F,E)	TRANSISTOR (2ND AMP)							
Q17 , 18			2SC2591(R,S)	TRANSISTOR (DRIVER)							
Q19 , 20			2SA1111(R,S)	TRANSISTOR (DRIVER)							
△ Q21 , 22			2SC3263(N,Y)	TRANSISTOR (POWER)							
△ Q23 , 24			2SA1294(N,Y)	TRANSISTOR (POWER)							
Q25			2SC1827(N,Y)	TRANSISTOR (REGULATOR)							
Q26			2SA769(N,Y)	TRANSISTOR (REGULATOR)							
Q28			2SA999(E,F)	TRANSISTOR (POWER SUPPLY CNT.)							
Q30			2SC2003(L,K)	TRANSISTOR (REGULATOR)							
TONE AMP (X11-1930-11)											
D1 -4			B30-0499-05	LED (SELECTOR)							
D5			B30-0500-05	LED (TAPE B)							
D6			B30-0777-05	LED (PHONE REC)							
PL1			B30-0372-05	LAMP (POWER) 12V 0.11A							
C1 , 2			CE04FW1H100M	ELECTRO	10UF		50WV				
C3 , 4			CC45FSL1H101J	CERAMIC	100PF	J					
C3 , 4			CC45FSL1H101J	CERAMIC	100PF	J					
C3 , 4			CC45FSL1H221J	CERAMIC	220PF	J					
C5 , 6			CK45FB1H222K	CERAMIC	2200PF	K					
C5 , 6			CK45FB1H561K	CERAMIC	560PF	K					
C5 , 6			CK45FB1H561K	CERAMIC	560PF	K					
C7 , 8			CE04FW1A470M	ELECTRO	47UF		10WV				
C9 , 10			CF92FV1H123J	MF	0.012UF	J					
C11 , 12			CF92FV1H332J	MF	3300PF	J					

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△ indicates safety critical components

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Desti- nation 仕向	Re- marks 備考
C13 ,14			CEO4FW1H2R2M	ELECTRO	2.2UF	50WV		
C15 ,16			CEO4FW1H0R1M	ELECTRO	0.1UF	50WV		
C17 ,18			CF92FV1H333J	MF	0.033UF	J		
C19 ,20			CEO4FW1H3R3M	ELECTRO	3.3UF	50WV		
C21 ,22			CC45FSL1H221J	CERAMIC	220PF	J		
C23 -26			CK45FB1H561K	CERAMIC	560PF	K		
C27 -30			CEO4FW1H100M	ELECTRO	10UF	50WV		
C31 ,32			CF92FV1H104J	MF	0.10UF	J		
C33 ,34			CK45FB1H102K	CERAMIC	0.001UF	K		
C35 -40			CEO4FW1H100M	ELECTRO	10UF	50WV		
C41 ,42			CEO4FW1H2R2M	ELECTRO	2.2UF	50WV		
C43 -47			CK45FF1H103Z	CERAMIC	0.01UF	Z		
C49 -56			CK45FB1H561K	CERAMIC	560PF	K	TE	
C68 ,69			CEO4FW1H010M	ELECTRO	1UF	50WV		
C70 ,71			CK45FF1H103Z	CERAMIC	0.01UF	Z		
201	2B		E11-0135-05	PHONE JACK (HEADPHONE)				
203	1C		E13-0217-05	PHONE JACK (2P)				
206	1C		E20-0820-05	LOCK TERMINAL BOARD (SPEAKERS)				
-			E13-0434-05	PHONE JACK (4P)				
-			E13-0622-05	PHONE JACK (6P)				
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL				
R65 ,66			RD14GB2E2R2J	FL-PROOF RD	2.2	J 2E		
R67 ,68			RS14GB3D391J	FL-PROOF RS	390	J 3D		
R69			RS14GB3A560J	FL-PROOF RS	56	J 3A		
VR1			RD6-5087-05	POTENTIOMATER	100K	VOLUME		
VR2			RD1-5041-05	POTENTIOMATER	200K(W)	BALANCE		
VR4 ,5	*		RD6-5116-05	POTENTIOMATER	100K	TONE		
VR6 ,7	*		RD6-5117-05	POTENTIOMATER	100K	TURNOVER		
S1	*		S42-6016-05	MULTIPLE PUSH SWITCH (SELECTOR)				
S2	*		S40-2323-05	PUSH SWITCH (TONE)				
S3	*		S42-5037-05	PUSH SW(MODE, SP, LOUD, SUBSONIC)				
IC1			LA645BGG	IC (EQ AMP)				
IC2			AN6555	IC (TONE AMP)				
IC3			AN6556	IC (TONE AMP)				
Q1 -4			2SC1845(F,E)	TRANSISTOR (CONTROLLER)				
POWER SUPPLY (X13-4340-11)								
C1			CEO4FW1H4R7M	ELECTRO	4.7UF	50WV		
C3			CK45F1H103Z	CERAMIC	0.01UF	Z		
△ F1			F05-3121-05	FUSE (SEMKO)			E	
△ F1			F05-6021-05	FUSE			UMUEX	
△ F1			F05-6027-05	FUSE (UL)			KP	
△ F2			F05-3022-05	FUSE			UMUEX	
△ F2			F05-3121-05	FUSE (SEMKO)			T	
-			J13-0041-05	FUSE CLIP			UMUEX	
-			J13-0055-05	FUSE CLIP			KPTE	
△ S1			S31-2083-05	SLIDE SWITCH (VOLTAGE)			UMUEX	
D1			WD6B	DIODE				

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